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# FOREST STEWARDSHIP MANAGEMENT PLAN

Prepared For:  
Carroll County BOE

Prepared By:  
Jim Strong  
MFC

Time Period Covered by This Plan:  
2012 - 2021

Date Plan Prepared:  
2012-02-15

Plan Type:  
Stewardship / Stewardship

This plan was developed in accordance with the rules of the Stewardship program.

**Property Name: S16-T17N-R6E**

MISSISSIPPI FOREST STEWARDSHIP PROGRAM

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**MISSISSIPPI FORESTRY COMMISSION  
FOREST STEWARDSHIP MANAGEMENT PLAN**

**LANDOWNER INFORMATION**

Name: Carroll County BOE  
Mailing Address: P O Box 256  
City, State, Zip: Carrollton, MS 38917  
Country: United States of America  
Contact Numbers: Home Number:  
Office Number: 662-237-9276  
Fax Number:  
  
E-mail Address:  
Social Security Number (optional):

**FORESTER INFORMATION**

Name: Jim Strong , Service Forester  
Forester Number: 00898  
Organization: MFC  
Street Address: P O Box 95  
City, State, Zip: Carrollton, MS 38917  
Contact Numbers: Office Number: 662-237-6732  
Fax Number:  
E-mail Address: jstrong@mfc.state.ms.us

**PROPERTY LOCATION**

County: Carroll    Total Acres: 611    Latitude: -89.67    Longitude: 33.34  
Section: 16    Township: 17N    Range: 6E

**DISCLAIMER**

This information was derived from a small sampling of the forest resources. It reflects a statistical estimation that is only intended to be accurate enough for the purposes of making decisions for the short-term management of these resources. These estimations are temporally static. Events and circumstances may occur within the survey area that will physically alter the forest resources and therefore will not be reflected in this plan.

**INTRODUCTION**

This Forest Stewardship Management Plan will serve as a guide for accomplishing the goals and objectives for your property. In addition to addressing your specific goals and objectives, this plan includes recommendations for maintaining soil and water quality and protecting your forest from insects, disease, and wildfire. Recommendations are based on observation and assessment of the site.

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## **OBJECTIVES**

### *Timber Production*

The goal is to produce high quality sawtimber. This will be accomplished through reforestation and timber stand improvement practices such as herbicide applications, prescribed burning, thinning at specified intervals, and other silvicultural practices. Forestry Best Management Practices will be implemented to prevent erosion and protect water quality.

### *Wildlife Management - General*

The goal is to provide a diversity of habitats suitable for a variety of game and non-game wildlife species. Habitat management will focus on developing a variety of food, cover, water, and space. This will be accomplished by establishing and maintaining access roads and firelanes, providing openings within the forest, and the management of trees located within the Streamside Management Zone

## **PROPERTY DESCRIPTION**

### *General Property Information*

This is a bottomland hardwood tract located in south eastern Carroll County. There is a total of 668 forested acres with multiple age classes. The Big Black River divides the section running east to west and poses flooding problems in the spring. Access to the northern part of the section is from CR #9 and through a landowner's private road. Access to the southern part of the section is from CR # 8 and through a private landowner's private road. The access problems for this section needs to be addresses by the BOE . Beavers are also present and create problems by impounding water on the section.

### *Water Resources*

The drainages of this section are in the Big Black watershed. The Big Black River and Horse Creek runs through this property as well as other intermittent streams and drains. The objective is to protect, preserve and enhance all water sources and drainages on or transecting the property. Mississippi's Best Management Practices will be implemented during all aspects of the mamagementof this property to minimixe the impact on water resources.

### *Timber Production*

The goal is to maximize the production of high quality timber. This will be accomplished through the application of timely thinning and other silvicultural practices designed to enhance timber quality and growth. Forestry Best Management Practices will be implemented to prevent erosion and protect water quality.

### *Threatened and Endangered Species*

No threatened and endangered species were identified during the reconnaissance and evaluation of this property.

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If any threatened and /or endangered species are discovered, immediate management procedures will be applied to protect these sensitive natural resources for future generations.

*Interaction with Surrounding Property*

Prescribed practices should be carried out in a manner that will minimize adverse impacts on surrounding properties. Consideration should be given to potential air, water, visual, and other impacts. In addition, practices carried out should have positive effects on the surrounding community such as improved wildlife habitat and soil stabilization.

*Soils General*

Soils were evaluated on the property to determine the suitability of the site for the proposed activities. Forest practices were planned so as to minimize erosion or other adverse effects on the soil. The following soils are identified for this property: Chenneby-Arkabutla Association.

For a complete description of these soils, please see the Soil Type Section in this plan.

*Archeological and Cultural Resources*

No Archeological and Cultural Resources were identified during a reconnaissance of the property.

If any Archeological and/or Cultural Resources are discovered during the management of this property, immediate management practices will be applied.

## **GENERAL PROPERTY RECOMMENDATIONS**

*Forest Protection*

A vigorous growing stand is the best defense to an attack from a variety of forest insects, plants and pathogens.

*Insects and Diseases*

Trees are subject to attack from insects and diseases. Different insects and diseases affect trees according to the age, species, and condition of the trees. Planted stands of pines and pure stands of hardwoods are particularly susceptible to attack. Since there are many different insects and diseases, no attempt will be made here to explain all of them. The property should be inspected at least annually for possible signs of insect and disease activity. Some things to look for are:

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- Unseasonable leaf fall
- Discoloration of leaves or needles
- Pitch pockets on pine trees
- Heavy defoliation of hardwood leaves
- Groups of three or more dying trees within a stand

This list does not cover all instances of insect or disease attacks. If anything unusual is noticed, report it to a forester. In most cases, insect and disease problems can be controlled if discovered early.

### Fire Protection

The Mississippi Forestry Commission will establish and maintain all firebreaks around the property and other forest management areas on the property. These firebreaks will help to protect your property from wildfires. All firebreaks will be established and maintained according to Mississippi Best Management Practices.

### Grazing

Tree seedlings should be protected from grazing until such time as the terminal bud of the sapling is beyond reach of livestock. Domestic livestock should be denied access to the tree planting area.

### Boundary Lines

It is the responsibility of the landowner to ensure that all property lines and boundaries designating areas to receive forestry work are clearly identified and visible to all contractors.

**Note:** Some forest practices may cause temporary adverse environmental or aesthetic impacts. These practices will only cause short-term adverse impacts where they are installed. Special efforts will be made to minimize adverse effects when carrying out any of the practices. Examples include: site preparation, planting, prescribed fires, firebreak installation and maintenance, road installation and maintenance, pesticide applications and timber harvesting.

### *Water Quality Protection*

The objective of the landowner is to protect, preserve and enhance all water sources on or transecting the property. This will be achieved by implementation of Best Management Practices in all aspects of the management of the property.

### *Aesthetics*

The goal is to assure that the property is managed in such a way that is aesthetically pleasing to the landowner as well as the community. Activities could include, maintaining buffer strips along the road and adjacent to the home site, planting wildflowers along the road, and trees with attractive fall and spring color along the drive and near the home site.

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### *Ecological Restoration*

Ecological restoration is the process of assisting the recovery of an ecosystem that has been degraded, damaged, or destroyed. A reconnaissance of the property has been conducted and no ecological restoration activities are recommended at this time.

### *Wildlife Mgt. Target Species*

The objective of this practice is to provide habitat best suited for the featured or target species. Habitat management will focus on providing food, cover, water, and space to facilitate the target species.

### *Environmental Education*

Environmental educational goals are to provide educational opportunities for children and adults through the development of items such as nature trails with tree identification markers, wildlife viewing areas, picnic areas, parking, public restroom facilities.

### *Wildlife Management General*

The goal is to provide a diversity of habitats suited for a variety of game and non-game wildlife species. Habitat management will focus on providing a variety of food, cover, water, and space. This will be accomplished, in part, by establishing and maintaining access roads and firelanes, providing openings within the forest, and leaving mast producing and den trees.

One hunting club has the entire section leased for hunting and has had it leased for over 15 years. Deer hunting is their primary game to hunt. Wild hogs are numerous on this section which are hunted also.

### *Timber Management*

Timber management goals for this property are to manage timber resources in such a manner as to maximize timber production throughout the life of the stand.

### *Recreation*

According to landowner objectives the recreational use of the property could prove to be an avenue for personal enjoyment or for generating income. An evaluation of your property should be conducted and a plan developed to accomplish your specific goals for recreational activities on your property.

## SOIL TYPES

### *17*

The Chenneby component makes up 54 percent of the map unit. Slopes are 0 to 2 percent. This component is on flood plains. The parent material consists of silty alluvium deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is high. Shrink-swell potential is low. This soil is frequently flooded. It is not ponded. A seasonal zone of water saturation is at 21 inches during January, February, March. Organic matter content in the surface horizon is

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about 2 percent. Nonirrigated land capability classification is 4w. This soil meets hydric criteria. The Arkabutla component makes up 31 percent of the map unit. Slopes are 0 to 2 percent. This component is on flood plains. The parent material consists of silty alluvium deposits. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is somewhat poorly drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches is very high. Shrink-swell potential is low. This soil is frequently flooded. It is not ponded. A seasonal zone of water saturation is at 15 inches during January, February, March, April. Organic matter content in the surface horizon is about 2 percent. Nonirrigated land capability classification is 4w. This soil meets hydric criteria.

## **STRATA**

### *Strata 1*

#### **Stand Description**

This strata consists of the followings stands : # 1, and # 2 for a total of 6.05 acre . All timber was harvested in 2006 and the stand was allowed to re-sprout back naturally to hardwood regeneration of oak, gum, elm , sycamore, ash and other species. A recent survival check shows that the stand has approximately 400 hardwood trees to the acre with an average total height of 7 feet tall.

#### **Stand Recommendations**

This stand will be managed on a 65 year rotation. No activites are planned for this stand for the next 10 years.

This stand has abundant food and cover for the native wildlife.

### *Strata 2*

#### **Stand Description**

This strata consists of the following stands #3, #7 and # 14 for a total 105.51 acres . This strata is located on both sides of the Big Black River and along a large drainage ditch that flows into the Big Black River. It consists of a 100 foot strip of hardwood sawtimber of oaks, gums, elm, hickory, sycamore and other species that was left as a SMZ on both sides of the river and drain, when the adjoining timber was harvested .

The trees were established in 1969 and there are 118 trees per acre. They average 12.5 inches in diameter with an average total height of 65 feet with 85 tons per acre. During the spring rains,the river constantly floods this condition with some water staying in the sloughs all year . Also some trees fall when high winds topple them down because of the wet conditions. Beaver activity is present in this stand . Some beaver control work has been performed by the Mississippi Forestry Commission . The main objective of the beaver work was to help lower the water that backs up on Hanking Lumber Company's land and adjacent landowner, Rickey Corley.



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Also, private wildlife experts have been contracted to help control the beaver problems.

The Mississippi Forestry Commission will monitor the beaver problems and advise the BOE on recommendations to help control the water levels.

**Stand Recommendations**

This strata will be managed as a SMZ to filter sedimentation. The hardwood timber will be managed on a 65 year rotation.

No activities are planned for the next 10 years, except beaver control work when needed.

The MFC will monitor this strata during dry conditions. During this time a harvest will be set up and those trees that are biologically mature or areas with a high basal area will be targeted for a select harvest. Maintaining the integrity of the SMZ will be the priority in this strata.

This hardwood stand is excellent wildlife habitat for the native wildlife. Squirrels are very abundant in this stand of trees along the river.

*Strata 3*

**Stand Description**

This strata consists of the following stand: # 5 for a total of 210.45 acres. There are 125 trees to the acre of hardwood pulpwood of oaks, willow, gums, sycamore, maple and other species that average 7.3 inches in diameter. The trees average 25 feet in total height and were established in 1988 when the tract was clear cut. All the remaining stems at that time, were chainsawed down and the stand was allowed to be regenerated naturally. Beaver activity is present and some beaver trapping has recently been conducted by a contract trapper. This trapping was to help reduce water that had backed up from the School Land and causing water onto the adjoining landowner's land. Some areas stay wet almost year round because of the beaver activity. An old river bend of the Big Black river is found along the river and stays flooded year round.

**Stand Recommendations**

This stand will be managed on a 65 year rotation. No activities are planned for this stand for the next 10 years. Beaver control work will need to be carried out as needed.

This is excellent habitat for native wildlife such as deer, turkeys, rabbits, all types of songbirds and other wildlife species.

*Strata 4*

**Stand Description**

This strata consists of stand # 9. There is 12.32 acres in this strata. The strata was hand planted in February 1995 to nuttall oak seedlings at the rate of 302 seedlings per acre.

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The stand consists of sub-merchantable oaks with some loblolly pines that have re-seeded in the stand . Also some green ash and sweetgums are found scattered throughout this stand. There are approximately 320 stems to the acre that average 4 inches in diameter with an average total height of 30 feet .

This stand is excellent wildlife habitat for deer and cottontail rabbits.

**Stand Recommendations**

This stand will be managed on a 65 year rotation.No activites are planned for this stand for the next 10 years.

*Strata 5*

**Stand Description**

This strata consists of the following stands # 6 and # 10 for a total of 243.77 acres of hardwood stems of oaks, gums, sycamore and other species that was establised in 1990 when the tract was clear cut and all remaining stems were chainsawed down and the stand was allowed to be regenerated naturally. There are approximately 365 trees per acre that average 5.0 inches in diameter with an average total height of 37 feet. Beaver activity is present and some beaver trapping has recently been conducted. Some areas stay wet almost yaer round because of the beaver activity. One area approximately 3 acres in size is a flooded area that the beavers constantly keep flooded and the water sometimes back back up on the adjoining landowner.

**Stand Recommendations**

This stand will be managed on a 65 year rotation. No activites are planned for this stand for the next 10 years except beaver controll work as needed.

The Mississippi Forestry Commission will mointor the beaver activity and advise the BOE when beaver controll work is needed.

Deer, rabbits, song birds, wild hogs and other native wildlife are very abundant in this area.This strata provides food and cover for native wildlife.

*Strata 6*

**Stand Description**

This strata consists consists of stand # 13 for .44 acres that was hand planted in February 2011 at the rate of 302 nuttall oaks to the acre.

The reason that this small area was planted to oak trees is that the BOE required that the present lease holder to plant it since one of the hunting club members had cleared it my mistake for a food plot.

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**Stand Recommendations**

This stand will be managed on a 65 year rotation.No activites are planned for this stand for the next 10 years.

Native wildlife use this recent planted area for food and cover source from the tender vegetation that is sprouting back from the cleared area.

**OTHER PLAN ACTIVITIES**

*Boundary Lines*

**Line Description**

Routine inspection and general maintenance of the roads, firelanes and boundary lines will ensure the overll appearance and aesthetics of the property.

**Line Recommendations**

The 4 miles of boundary lines will be repainted with red paint at eye level on the old hacked marks and all corners marked with a X to insure that the property boundaries are clearly identified .

**Activity Recommendations**

**Property Activities**

Routine inspections and general maintenance of the roads, Firelanes, and boundary lines will ensure overall appearance and aesthetics of the property.

All property lines will be remarked with red paint during the summer of 2011.

**Property Activities**

Routine inspections and general maintenance of the roads, Firelanes, and boundary lines will ensure overall appearance and aesthetics of the property.

All property lines will be remarked with red paint during the summer of 2016.



## S16 T17 R6E Carroll County BOE

### Property

Property (1)

### Category 1: Stands

Reproduction (3)  
 Sawtimber (3)  
 Sub-Merchantable (4)

### Category 3: Non-Forest Stands

Non-Forest (4)

### Property Roads/Trails

Access Road (6)  
 Drive Ways (1)

## MFC Basemap

### County Boundary

County Boundary (1)

### Quadrangle Grid

USGS Quad (1)

### PLS Townships

PLS Townships (1)

### Survey Districts

District 2 (1)

### Blockgroup (Census 2000)

Blockgroup (Census 2000) (1)

### Block (Census 2000)

Block (Census 2000) (4)

### Tract/BNR (Census 2000)

Tract/BNR (Census 2000) (1)

### School Sections

School Sections (1)

### Public School Districts

CARROLL COUNTY SCHOOL DISTRICT (1)

### US Congressional District

US Cong Dist #2 (1)

### MS Senate

14 (1)

### MS House

48 (1)

### Major River

Major River (1)

### Perennial Streams

Perennial Streams (3)

### Intermittent Streams

Intermittent Streams (8)

### Hydrologic Units (Basins)

UPPER BIG BLACK RIVER (1)

### Historic Forest Boundary

Loblolly/Shortleaf Pine-Oak (1)

### MS Forest Habitat

NORTHERN LOESSIAL LOAM HILLS (1)

### MS Forest Habitat (cont)

MISCELLANEOUS ALLUVIAL FLOODPLAINS (1)

### Physiographic Region

North Central Hills (1)

### Soil Associations

arkabutla-chenneby-stough (1)

### Surface Geology

TALLAHATTA/NESHOBA SAND (1)

### MFC Districts

MFC Districts (1)

### MFC Dispatch Units

MFC Dispatch Units (1)

### MS Outline

MS Outline (1)



# S16 T17N 6E Carroll County BOE



## S16 T17N 6E Carroll County BOE

Big Black  
2012 to 2021  
610.58 Acres



Stand Activity Schedule for  
Carroll County BOE  
16 17N 6E

Strata	Stand	Activity	Acre	Est. Cost	Est. Revenue
		Yearly Totals	0	\$0.00	\$0.00
		Grand Totals	0	\$0.00	\$0.00